

FIGURE 1

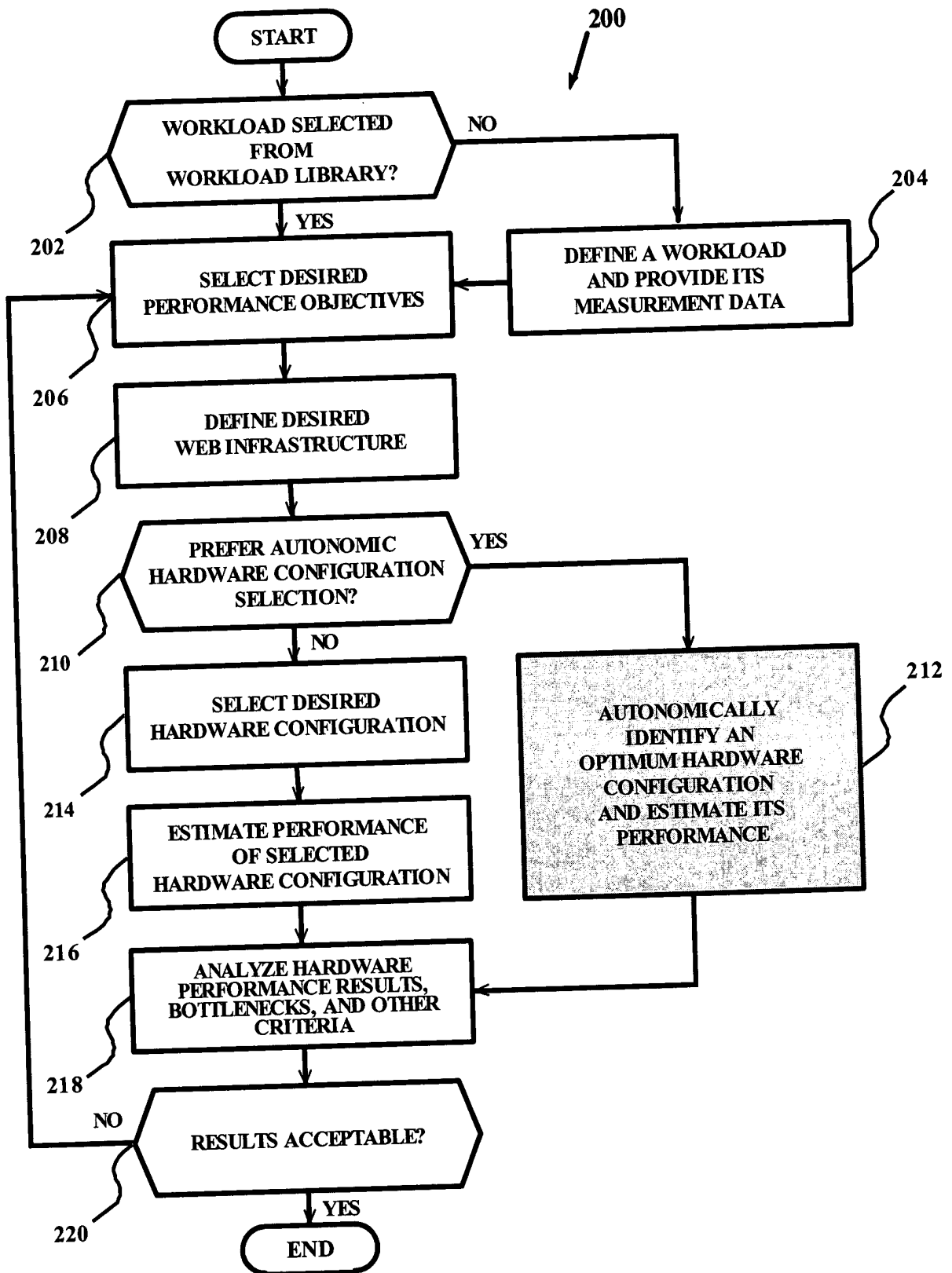


FIGURE 2

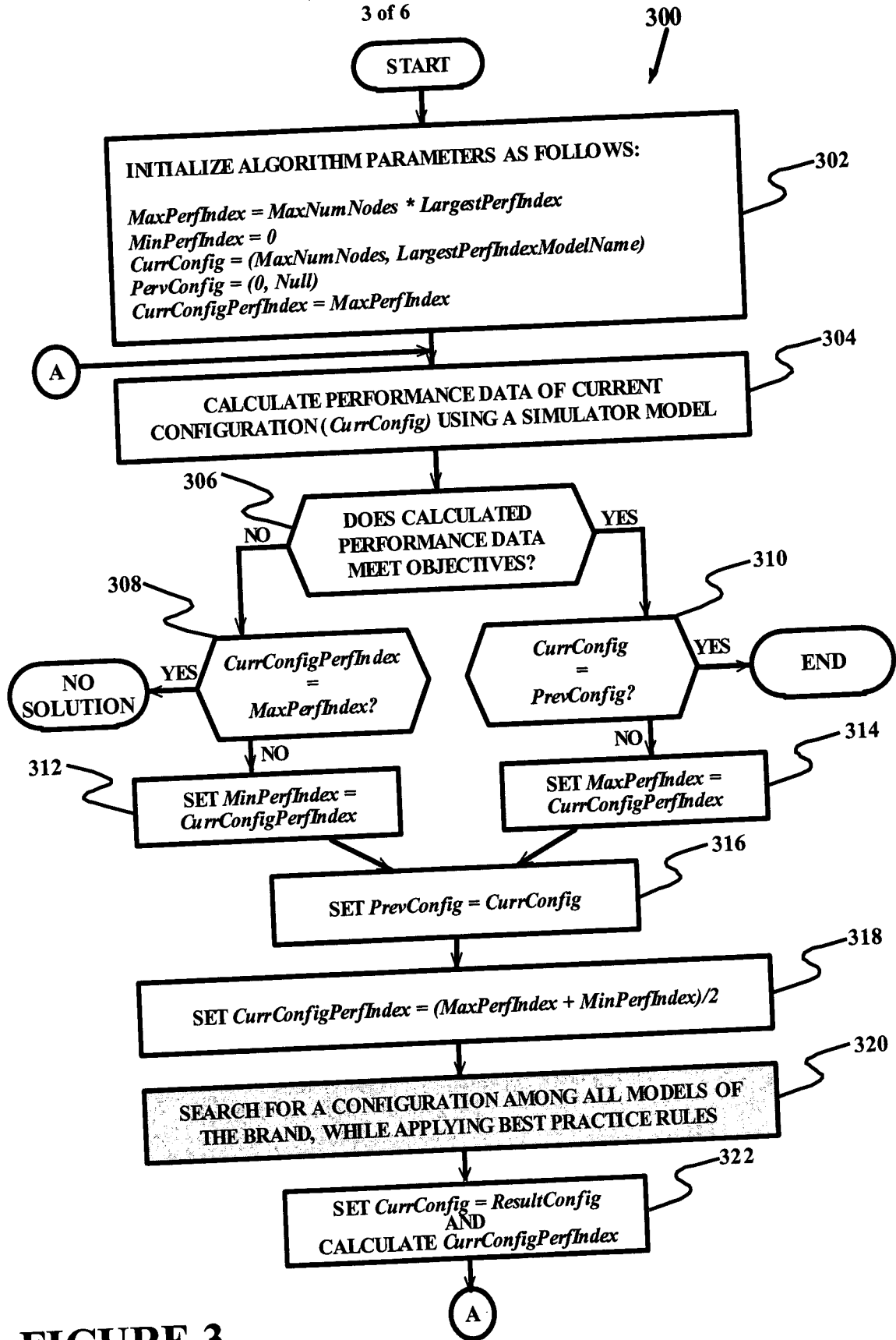


FIGURE 3

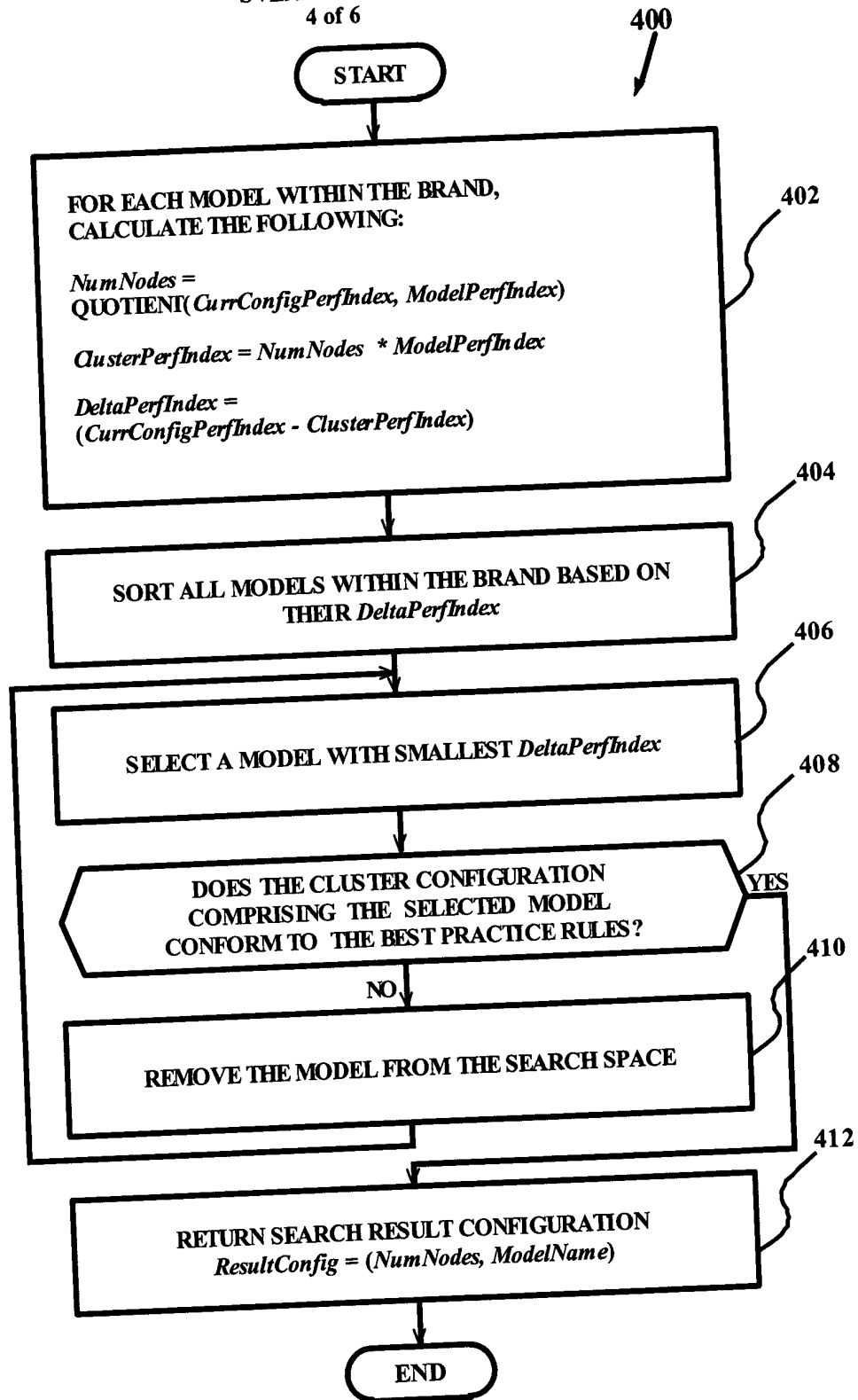


FIGURE 4

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Tier	One Tier Architecture Rule	Two Tier Architecture Rule	Three Tier Architecture Rule
Tier-1	≥ 2 way SMP	≥ 2 way SMP ≤ 12 way SMP	≥ 2 way SMP ≤ 6 way SMP
Tier-2		≥ 2 way SMP	≥ 2 way SMP ≤ 12 way SMP
Tier-3			≥ 2 way SMP

Table 1 - SMP Size Rules

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Solution	Rule
Vertical	SMP Size/Number of Nodes > 1.5
Horizontal	Number of Nodes/SMP Size > 1.5

Table 2 - Vertical/Horizontal Solution Rules

FIGURE 5

Assume $\text{CurrConfigPerfIndex} = 900$;

$\text{ClusterNumNodes} = \text{QUOTIENT}(\text{CurrConfigPerfIndex}, \text{ModelPerfIndex});$

$\text{ClusterPerfIndex} = \text{ClusterNumNodes} * \text{ModelPerfIndex};$

$\text{DeltaPerfIndex} = (\text{CurrConfigPerfIndex} - \text{ClusterPerfIndex});$

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Brand Name	Model Name	Model PerfIndex	Cluster Num Nodes	Cluster PerfIndex	Delta PerfIndex
A	AM-1	100	9	900	0
A	AM-2	85	10	850	50
A	AM-3	62	14	868	32
...
A	AM-n	5	180	900	0
B	BM-1	77	11	847	53
B	BM-2	52	17	884	16
...
B	BM-m	3	300	900	0
C	CM-1	105	8	840	60
...

Table 3 - Brand/Model Performance Index Database

FIGURE 6